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1 A novel technique for indexing video surveillance data

Eamonn Keogh, Bhrigu Celly, Chotirat Ann Ratanamahatana, Victor Brian Zordan

November 2003 IWVS '03: First ACM SIGMM international workshop on Video surveillance

Publisher: ACM

Full text available: pdf(961.84 KB) Additional Information: full citation, abstract, references, index terms

Recent worldwide events have renewed interest in the use of video surveillance as a tool for private security, law enforcement and military applications. After appropriate feature extraction has taken place, most video surveillance problems are reduced ...

Keywords: indexing, lower bounding, surveillance data, uniform scaling

2 Distributed power-management techniques for wireless network video systems

Nicholas H. Zamora, Jung-Chun Kao, Radu Marculescu

April 2007 DATE '07: Proceedings of the conference on Design, automation and test in Europe

Publisher: EDA Consortium

Full text available: pdf(400.72 KB) Additional Information: full citation, abstract, references

Wireless sensor networks operating on limited energy resources need to be power efficient to extend the system lifetime. This is especially challenging for video sensor networks due to the large volumes of data they need to process in short periods of ...

3 Adaptive rate control for streaming stored fine-grained scalable video

Philippe de Cuetos, Keith W. Ross

May 2002 NOSSDAV '02: Proceedings of the 12th international workshop on Network and operating systems support for digital audio and

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video
Publisher: ACM

Full text available: pdf(338.32 KB) Additional Information: full citation, abstract, references, cited by, index terms

In this paper we investigate adaptive streaming of stored fine-grained scalable video over a TCP-friendly connection. The goal is to develop low-complexity yet high-performing schemes that adequately adapt to the short- and long-term variations in available ...

Keywords: fine-grained scalability, internet video streaming, network-adaptive applications

4 Illustration of complex real-world objects using images with normals

Corey Toler-Franklin, Adam Finkelstein, Szymon Rusinkiewicz
August 2007 NPAR '07: Proceedings of the 5th international symposium on Non-photorealistic animation and rendering
Publisher: ACM

Full text available: pdf(13.63 MB) Additional Information: full citation, abstract, references

This paper investigates the creation of non-photorealistic illustrations from a type of data lying between simple 2D images and full 3D models: images with both a color (albedo) and a surface normal stored at each pixel. Images with normals combine an ...

5 Video inpainting and implant via diversified temporal continuations

Timothy K. Shih, Nick C. Tang, Wei-Sung Yeh, Ta-Jen Chen, Wonjun Lee
October 2006 MULTIMEDIA '06: Proceedings of the 14th annual ACM international conference on Multimedia
Publisher: ACM

Full text available: pdf(559.72 KB) Additional Information: full citation, abstract, references, cited by, index terms

Recent interesting issues in video inpainting are defect removal and object removal. We take one more step to replace the removed objects in a video sequence by implanting objects from another video. Before implant, we improve an exemplar-based image ...

Keywords: object removal, object tracking, temporal continuations, video implant, video inpainting

6 Forensic video reconstruction

Larry Huston, Rahul Sukthankar, Jason Campbell, Padmanabhan Pillai
October 2004 VSSN '04: Proceedings of the ACM 2nd international workshop on Video surveillance & sensor networks
Publisher: ACM

Full text available: pdf(400.66 KB) Additional Information: full citation, abstract, references, cited by, index terms

This paper describes an application that enables quick reconstruction of interconnected events, sparsely captured by one or more surveillance

cameras. Unlike related efforts, our approach does not require indexing, advance knowledge of potential search ...

Keywords: active storage, interactive search, video retrieval

7 Object prefetching using semantic links



Alexander P. Pons

January 2006 ACM SIGMIS Database, Volume 37 Issue 1
Publisher: ACM

Full text available: pdf(1.31 MB) Additional Information: full citation, abstract, references, index terms

To date the most common means of gaining access to the Internet continues to be via dial-up modem connections. These slow communication channels significantly affect the rendering of the majority of web pages. Higher speed communications channels can ...

Keywords: semantic links, web-application, web-prefetching

8 User evaluation of Físchlár-News: An automatic broadcast news delivery system



Hyowon Lee, Alan F. Smeaton, Noel E. O'connor, Barry Smyth

April 2006 ACM Transactions on Information Systems (TOIS), Volume 24 Issue 2
Publisher: ACM

Full text available: pdf(1.25 MB) Additional Information: full citation, abstract, references, cited by, index terms

Technological developments in content-based analysis of digital video information are undergoing much progress, with ideas for fully automatic systems now being proposed and demonstrated. Yet because we do not yet have robust operational video retrieval ...

Keywords: User-evaluation, content-based video retrieval, usage analysis

9 Engaging constable: revealing art with new technology



Dirk vom Lehn, Jon Hindmarsh, Paul Luff, Christian Heath

April 2007 CHI '07: Proceedings of the SIGCHI conference on Human factors in computing systems
Publisher: ACM

Full text available: pdf(2.63 MB) Additional Information: full citation, abstract, references, index terms

Museums increasingly deploy new technologies to enhance visitors' experience of their exhibitions. They primarily rely on touch-screen computer systems, PDAs and digital audio-guides. Tate Britain recently employed two innovative systems in one of their ...

Keywords: ethnomethodology, gestural interface, museums, social interaction, touch-screen system, video analysis

10 Participatory design in emergency medical service: designing for

future practice
Margit Kristensen, Morten Kyng, Leysia Palen
April 2006 CHI '06: Proceedings of the SIGCHI conference on Human Factors in computing systems
Publisher: ACM

Full text available: pdf(870.10 KB) Additional Information: full citation, abstract, references, cited by, index terms

We describe our research-its approach, results and products-on Danish emergency medical service (EMS) field or "pre-hospital" work in minor and major incidents. We discuss how commitments to participatory design and attention to the qualitative differences ...

Keywords: Future Lab, emergency response, major incidents, medical response, minor incidents, participatory design, technology design, victim as boundary object, wireless biomonitor

11 Fun and games: a new software engineering course
Elizabeth Sweedyk, Robert M. Keller
June 2005 ITiCSE '05: Proceedings of the 10th annual SIGCSE conference on Innovation and technology in computer science education
Publisher: ACM

Full text available: pdf(506.05 KB) Additional Information: full citation, abstract, references, cited by, index terms, review

Computer and video games have grown to be a major industry but, until recently, have largely been ignored by academia. The last couple of years, however, have seen the emergence of new academic programs, conferences, and journals dedicated to games studies. ...

Keywords: computer games, education, software engineering, video games

12 Fun and games: a new software engineering course
Elizabeth Sweedyk, Robert M. Keller
September 2005 ACM SIGCSE Bulletin, Volume 37 Issue 3
Publisher: ACM

Full text available: pdf(506.05 KB) Additional Information: full citation, abstract, references, cited by, index terms, review

Computer and video games have grown to be a major industry but, until recently, have largely been ignored by academia. The last couple of years, however, have seen the emergence of new academic programs, conferences, and journals dedicated to games studies. ...

Keywords: computer games, education, software engineering, video games

13 Achieving safety: a field study of boundary objects in aircraft technical support
Wayne G. Lutters, Mark S. Ackerman

November 2002 CSCW '02: Proceedings of the 2002 ACM conference on Computer supported cooperative work
Publisher: ACM

Full text available: pdf(284.65 KB) Additional Information: full citation, abstract, references, cited by, index terms

Boundary objects are a critical, but understudied, theoretical construct in CSCW. Through a field study of aircraft technical support, we examined the role of boundary objects in the "achievement of safety" by service engineers. The resolution process ...

Keywords: boundary objects, collaborative work, high reliability organizations, hotlines, information reuse, organizational memory, safety, service engineering, technical support

14 The mediamill large.lexicon concept suggestion engine

Marcel Worring, Cees G. M. Snoek, Bouke Huurnink, Jan C. van Gemert, Dennis C. Koelma, Ork de Rooij
October 2006 MULTIMEDIA '06: Proceedings of the 14th annual ACM international conference on Multimedia
Publisher: ACM

Full text available: pdf(2.74 MB) Additional Information: full citation, abstract, references, index terms

In this technical demonstration we show the current version of the MediaMill system, a search engine that facilitates access to news video archives at a semantic level. The core of the system is a lexicon of 436 automatically detected semantic concepts. ...

Keywords: information visualization, semantic indexing, video retrieval

15 Storage optimization for large-scale distributed stream-processing systems

Kirsten Hildrum, Fred Douglis, Joel L. Wolf, Philip S. Yu, Lisa Fleischer, Akshay Katta
February 2008 ACM Transactions on Storage (TOS), Volume 3 Issue 4
Publisher: ACM

Full text available: pdf(980.49 KB) Additional Information: full citation, abstract, references, index terms

We consider storage in an extremely large-scale distributed computer system designed for stream processing applications. In such systems, both incoming data and intermediate results may need to be stored to enable analyses at unknown future times. The ...

Keywords: Storage management, file assignment problem, load balancing, optimization, streaming systems, theory

16 Experiential meeting system

Ramesh Jain, Pilho Kim, Zhao Li
November 2003 ETP '03: Proceedings of the 2003 ACM SIGMM workshop on Experiential telepresence
Publisher: ACM

Full text available: pdf(388.84 KB) Additional Information: full citation, abstract, references, cited by, index terms

We are developing experiential meeting systems to allow people to be tele-present in a remote meeting and to be able to review proceedings of a meeting or of several meetings using all the data recorded in a meeting. We consider this as a problem in ...

Keywords: data event, elemental event and domain event, event, event based data processing, experiential systems, meeting

17 The feasibility of supporting large-scale live streaming applications with dynamic application end-points

Kunwadee Sripanidkulchai, Aditya Ganjam, Bruce Maggs, Hui Zhang
August 2004 SIGCOMM '04: Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications
Publisher: ACM

Full text available: pdf(461.96 KB) Additional Information: full citation, abstract, references, cited by, index terms

While application end-point architectures have proven to be viable solutions for large-scale distributed applications such as distributed computing and file-sharing, there is little known about its feasibility for more bandwidth-demanding applications ...

Keywords: application-level multicast, live streaming, overlay multicast, peer-to-peer

18 Global distance-based segmentation of trajectories

Aris Anagnostopoulos, Michail Vlachos, Marios Hadjieleftheriou, Eamonn Keogh, Philip S. Yu
August 2006 KDD '06: Proceedings of the 12th ACM SIGKDD international conference on Knowledge discovery and data mining
Publisher: ACM

Full text available: pdf(1.08 MB) Additional Information: full citation, abstract, references, index terms

This work introduces distance-based criteria for segmentation of object trajectories. Segmentation leads to simplification of the original objects into smaller, less complex primitives that are better suited for storage and retrieval purposes. Previous ...

Keywords: DNA visualization, data simplification

19 Interactive shadow generation in complex environments

Naga K. Govindaraju, Brandon Lloyd, Sung-Eui Yoon, Avneesh Sud, Dinesh Manocha
July 2003 SIGGRAPH '03: ACM SIGGRAPH 2003 Papers
Publisher: ACM

Additional Information: full citation, abstract,

Full text available: pdf(2.63 MB) mov(23:40 MIN) references, cited by, index terms

We present a new algorithm for interactive generation of hard-edged, umbral shadows in complex environments with a moving light source. Our algorithm uses a hybrid approach that combines the image quality of object-precision methods with the efficiencies ...

Keywords: interactive display, level-of-detail, parallel rendering, shadows, visibility

20 The feasibility of supporting large-scale live streaming applications with dynamic application end-points

Kunwadee Sripanidkulchai, Aditya Ganjam, Bruce Maggs, Hui Zhang

August 2004 ACM SIGCOMM Computer Communication Review, Volume 34 Issue 4

Publisher: ACM

Full text available: pdf(461.96 KB) Additional Information: full citation, abstract, references, cited by, index terms

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Keywords: application-level multicast, live streaming, overlay multicast, peer-to-peer

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